

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 60790W0004	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, Item 6 below.	
International application No. PCT/US2006/021904	International filing date (day/month/year) 06/06/2006	(Earliest) Priority Date (day/month/year) 13/06/2005
Applicant 3M INNOVATIVE PROPERTIES COMPANY		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of:

☒

the international application in the language in which it was filed

a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (see Box No. III)

4. With regard to the **title**,

☒

the text is approved as submitted by the applicant

☐

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒

the text is approved as submitted by the applicant

☐

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐

as suggested by the applicant

☐

as selected by this Authority, because the applicant failed to suggest a figure

☐

as selected by this Authority, because this figure better characterizes the invention

- b. ☐ none of the figures is to be published with the abstract

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2006/021904**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☒ Claims Nos.: 1 (in part)  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims. It is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1 (in part)

The present claim 1 includes a component (c) which is defined only as a desideratum, namely "a builder, the builder being in an amount sufficient to provide stability or to improve the stability of a foam formed from the composition". However, the description does not provide support and disclosure in the sense of Article 6 and 5 PCT for any such compound having the said property or effect, other than the polymers indicated in claims 8 and 9 and the description on pages 7 to 9. On the other hand, it is noticed that the term "builder" is a commonly known term in the field of detergent compositions, however its generally recognised meaning of a substance added to soaps or detergents to increase their cleansing action is different from the meaning of the term according to the present application. Consequently the skilled person would not have knowledge beforehand, except for the compounds listed in claims 8 and 9, as to which compounds would fall within the scope claimed. Undue experimentation would be required to randomly screen compounds for the effect on the foam.

This non-compliance with the substantive provisions is to such an extent, that the search was performed taking into consideration the non-compliance in determining the extent of the search of the claim (PCT Guidelines 9.19 and 9.20).

The search of claim 1 was consequently restricted to the specifically disclosed compounds having the desired property or effect, see claims 8 and 9 and the description on pages 7 to 9.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2006/021904A. CLASSIFICATION OF SUBJECT MATTER  
INV. A61K8/34 A61K8/898 A61K8/73 A61K8/86 A61Q17/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61K C11D A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/06107 A (PROCTER & GAMBLE [US]; YOUNG WENDY VICTORIA JANE [GB]; MCKELVEY GRAHAM) 10 February 2000 (2000-02-10)	1-10, 16
Y	page 36, line 18 - page 37, line 3; examples 3, VII	17
X	WO 00/47183 A (PROCTER & GAMBLE [US]) 17 August 2000 (2000-08-17)	1-14, 18, 19
Y	page 13, last paragraph - page 14; examples I, II, VIII-X	17
	page 16, last paragraph - page 18, paragraph 2	
X	EP 0 689 767 A2 (BECTON DICKINSON CO [US]) 3 January 1996 (1996-01-03)	1-11, 14, 18, 19
Y	page 2, line 30 - page 3, line 41; examples EEA, EEB, EEC; table 1 page 3	17

-/-

☒ X

Further documents listed in the continuation of Box C.

☒ X

See patent family annex

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim(s) or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later documents published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

17 October 2006

Date of mailing of the international search report

24/10/2006

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patenlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-3040, Tx: 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Loloïu, Camelia

## INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/021904

## C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 951 993 A (SCHOLZ MATTHEW T [US] ET AL) 14 September 1999 (1999-09-14)	1-11, 15,
Y	column 4, line 40 - column 22, line 25; examples 14, 24, 35	16, 18, 19
	column 1, line 9 - line 13	17
Y	WO 93/00089 A (PROCTER & GAMBLE [US]) 7 January 1993 (1993-01-07)	17
	page 14, line 1 - page 16, line 8	
Y	EP 0 990 412 A2 (BECTON DICKINSON CO [US]) 5 April 2000 (2000-04-05)	17
	page 2, paragraph 8 - page 3, paragraph 13 claims; figures 1, 3	
E	WO 2006/066888 A2 (STOCKHAUSEN GMBH [DE]; VEEGER MARCEL [DE]; HIMMING MARKUS [DE]) 29 June 2006 (2006-06-29)	1-9, 15-19
	page 5, line 16 - line 31 page 7, line 14 - line 25 page 8, line 13 - line 26 claims 1-14; examples 1-3	
A	EP 0 213 527 A2 (UNION CARBIDE CORP [US]) 11 March 1987 (1987-03-11)	1-19
	the whole document	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/021904

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0006107	A	10-02-2000	AU 3359599 A	21-02-2000
			AU 8674598 A	21-02-2000
			BR 9912614 A	02-05-2001
			CA 2337163 A1	10-02-2000
			CN 1311655 A	05-09-2001
			EP 1100442 A1	23-05-2001
			JP 2003523924 T	12-08-2003
			WO 0006100 A1	10-02-2000
WO 0047183	A	17-08-2000	AT 273690 T	15-09-2004
			AU 3227700 A	29-08-2000
			CN 1343114 A	03-04-2002
			DE 60013098 D1	23-09-2004
			DE 60013098 T2	01-09-2005
			EP 1152744 A1	14-11-2001
			JP 2002536397 T	29-10-2002
			MX PA01008160 A	24-04-2002
EP 0689767	A2	03-01-1996	BR 9502916 A	27-02-1996
			CA 2151774 A1	28-12-1995
			DE 69512841 D1	25-11-1999
			DE 69512841 T2	18-05-2000
			JP 2638575 B2	06-08-1997
			JP 8040883 A	13-02-1996
			US 5629006 A	13-05-1997
US 5951993	A	14-09-1999	AU 715827 B2	10-02-2000
			AU 6044596 A	22-01-1997
			CA 2224798 A1	09-01-1997
			EP 0833605 A1	08-04-1998
			JP 11508252 T	21-07-1999
			WO 9700667 A1	09-01-1997
WO 9300089	A	07-01-1993	AU 2228392 A	25-01-1993
EP 0990412	A2	05-04-2000	AU 760761 B2	22-05-2003
			AU 4883299 A	30-03-2000
			CA 2280530 A1	28-03-2000
			DE 69923904 D1	07-04-2005
			DE 69923904 T2	06-04-2006
			ES 2239420 T3	16-09-2005
			US 6053369 A	25-04-2000
			US 6308866 B1	30-10-2001
WO 2006066888	A2	29-06-2006	DE 102004062775 A1	29-06-2006
			US 2006182690 A1	17-08-2006
EP 0213527	A2	11-03-1987	AU 6156486 A	26-02-1987
			CA 1281657 C	19-03-1991
			DE 3684532 D1	30-04-1992
			JP 62045697 A	27-02-1987
			KR 9100027 B1	19-01-1991
			US 4683004 A	28-07-1987